

Ag. Waste Application and Excavated Ponds  
Spink County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Aastad-----	85	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.81 0.10
Ab: Aastad-----	50	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.81 0.10
Hamerly-----	35	Somewhat limited Depth to saturated zone Restricted permeability	0.84  0.30	Somewhat limited Slow refill  Cutbanks cave Deep to water	0.95  0.10 0.07
Ad: Aastad-----	60	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.81 0.10
Tonka-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
Ae: Aberdeen-----	55	Very limited Restricted permeability Sodium content	1.00  0.08	Very limited Cutbanks cave  Slow refill Deep to water Salty water	1.00  0.95 0.90 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Nahon-----	35	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.95 0.90 0.50
Ah: Aberdeen-----	55	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	35	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
An: Aberdeen-----	45	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	25	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Heil-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ao: Aberdeen-----	45	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.95 0.90 0.01
Nahon-----	25	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.95 0.90 0.50
Heil-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
At: Aquents, Loamy-----	90	Very limited Ponding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave Slow refill	1.00 0.57
BaC: Beadle-----	80	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BdA: Beadle-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Dudley-----	35	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
BeA: Beadle-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Stickney-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
BeB: Beadle-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Stickney-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
BfA: Beadle-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Stickney-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
BfB: Beadle-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Stickney-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Bg: Bearden-----	85	Somewhat limited Depth to saturated zone Sodium content	0.84 0.08	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Bk: Bearden-----	60	Somewhat limited Depth to saturated zone Sodium content	0.84 0.08	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07
Tonka-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Bo: Beotia-----	90	Not limited		Very limited Deep to water	1.00
Br: Beotia-----	50	Not limited		Very limited Deep to water	1.00
Rondell-----	35	Somewhat limited Salinity	0.01	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Bs: Beotia-----	60	Not limited		Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.57
Winship-----	30	Somewhat limited Restricted permeability Depth to saturated zone	0.89 0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Bt: Beotia-----	60	Somewhat limited Restricted permeability	0.30	Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.57

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Winship-----	30	Somewhat limited Restricted permeability Depth to saturated zone	0.89 0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Bu: Bon-----	90	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
Bw: Bon-----	85	Very limited Flooding	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
BxD: Buse-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Barnes-----	35	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
ByE: Buse-----	50	Very limited Slope Large stones on the surface Cobble content Restricted permeability	1.00 1.00 1.00 0.30	Very limited Deep to water	1.00
Barnes-----	35	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
BzE: Buse-----	50	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Langhei-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ca: Camtown-----	55	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.06	Somewhat limited Deep to water Slow refill Cutbanks cave Salty water	0.90 0.57 0.10 0.06
Turton-----	30	Very limited Sodium content Droughty Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Slow refill Salty water Cutbanks cave	0.90 0.57 0.50 0.10
Cf: Cavour-----	55	Very limited Droughty Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Ferney-----	35	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
Co: Colvin-----	85	Very limited Depth to saturated zone Salinity Leaching limitation Restricted permeability Sodium content	1.00 0.50 0.50 0.30 0.08	Somewhat limited Slow refill Salty water Cutbanks cave	0.57 0.50 0.10
Cr: Cresbard-----	60	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Cavour-----	30	Very limited Droughty Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cs: Cresbard-----	40	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Cavour-----	30	Very limited Droughty Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Heil-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Ct: Crossplain-----	60	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.89	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Tetonka-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Da: Davis-----	55	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
Northville-----	35	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Deep to water Slow refill Salty water Cutbanks cave	0.81 0.57 0.50 0.10



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Db: Davison-----	85	Somewhat limited Depth to saturated zone	0.68	Somewhat limited Slow refill	0.30
				Deep to water	0.14
				Cutbanks cave	0.10
				Salty water	0.01
Dd: Davison-----	50	Somewhat limited Depth to saturated zone	0.68	Somewhat limited Slow refill	0.30
				Deep to water	0.14
				Cutbanks cave	0.10
				Salty water	0.01
Tetonka-----	40	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00	Salty water	0.01
		Leaching limitation	0.50		
DeA: Delmont-----	55	Very limited Shallow to Discontinuity	1.00	Very limited Deep to water	1.00
		Droughty	1.00		
		Depth to dense layer	1.00		
		Filtering capacity	1.00		
Enet-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Shallow to Discontinuity	0.42		
		Droughty	0.14		
Dk: Dimo-----	85	Somewhat limited Shallow to Discontinuity	0.42	Very limited Cutbanks cave	1.00
		Droughty	0.03	Deep to water	0.81

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Dm: Dimo-----	55	Somewhat limited Depth to saturated zone Shallow to Discontinuity Droughty	0.95 0.42 0.03	Very limited Cutbanks cave Deep to water	1.00 0.02
Grat-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Filtering capacity Shallow to Discontinuity	1.00 1.00 1.00 1.00 0.42	Very limited Cutbanks cave	1.00
DoA: Doland-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Embden-----	30	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
Dq: Dovecreek-----	90	Not limited		Very limited Deep to water	1.00
Dr: Dovray-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.99 0.10
Du: Dudley-----	55	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Jerauld-----	35	Very limited Droughty Sodium content Salinity Runoff limitation	 1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	 1.00 0.90 0.50 0.10
Dx: Durrstein-----	85	Very limited Depth to saturated zone Flooding Droughty Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
Ea: Eckman-----	85	Not limited		Very limited Deep to water	1.00
EcA: Eckman-----	50	Not limited		Very limited Deep to water	1.00
Gardena-----	40	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
EcB: Eckman-----	60	Not limited		Very limited Deep to water	1.00
Gardena-----	30	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
EdB: Eckman-----	60	Not limited		Very limited Deep to water	1.00
Zell-----	30	Not limited		Very limited Deep to water	1.00
EeB: Edgeley-----	85	Somewhat limited Droughty Depth to bedrock	0.50 0.42	Very limited Deep to water	1.00
EeC: Edgeley-----	85	Somewhat limited Droughty Depth to bedrock	0.50 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EeD: Edgeley-----	85	Very limited Slope Droughty Depth to bedrock	1.00 0.50 0.42	Very limited Deep to water	1.00
EgA: Egeland-----	50	Not limited		Very limited Deep to water	1.00
Embden-----	40	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
EgB: Egeland-----	50	Not limited		Very limited Deep to water	1.00
Embden-----	35	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
Ek: Elsmere-----	85	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.95 0.45 0.30	Very limited Cutbanks cave Deep to water	1.00 0.02
EmE: Ethan-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00
Betts-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
EnD: Ethan-----	55	Very limited Slope	1.00	Very limited Deep to water	1.00
Hand-----	35	Somewhat limited Slope	0.63	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Er: Exline-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 1.00 0.50 0.07
Aberdeen-----	25	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	20	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Et: Exline-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 0.95 0.50 0.07
Aberdeen-----	25	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.95 0.90 0.01
Nahon-----	20	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.95 0.90 0.50

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ew: Exline-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.84  0.50 0.40	Very limited Cutbanks cave Slow refill Salty water  Deep to water	 1.00 1.00 0.50  0.07
Heil-----	40	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
Ex: Exline-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.84  0.50 0.40	Very limited Cutbanks cave Slow refill Salty water  Deep to water	 1.00 0.95 0.50  0.07
Heil-----	40	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
EyA: Exline-----	45	Very limited Droughty Sodium content Salinity Runoff limitation	 1.00 1.00 0.50 0.40	Very limited Cutbanks cave Slow refill Deep to water Salty water	 1.00 1.00 0.90 0.50
Putney-----	40	Somewhat limited Salinity Sodium content	 0.78 0.02	Very limited Deep to water	 1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Fa: Farmsworth-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.95  0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave  Deep to water	 0.99 0.50 0.10  0.02
Durrstein-----	35	Very limited Depth to saturated zone Flooding Droughty Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
Fe: Ferney-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.84  0.50 0.40	Very limited Slow refill Salty water Cutbanks cave  Deep to water	 1.00 0.50 0.10  0.07
Heil-----	40	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
Ff: Forestburg-----	60	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	  1.00  0.45 0.30  0.24	Very limited Cutbanks cave Slow refill  Deep to water	 1.00 0.95  0.38

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Elsmere-----	30	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00  1.00  0.45 0.30	Very limited Cutbanks cave Deep to water	1.00  0.01
Fh: Forestburg-----	45	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	 1.00  0.45 0.30 0.24	Very limited Cutbanks cave Slow refill Deep to water	 1.00 0.95 0.38
Elsmere-----	25	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00  1.00  0.45 0.30	Very limited Cutbanks cave Deep to water	1.00  0.01
Toko-----	20	Very limited Depth to saturated zone Ponding Restricted permeability	1.00  1.00 0.30	Somewhat limited Cutbanks cave	0.10
FmA: Forman-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	40	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95  0.81 0.10



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FmB: Forman-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	30	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.81
				Cutbanks cave	0.10
FnC: Forman-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
FrB: Forman-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.81
				Cutbanks cave	0.10
FrC: Forman-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.81
				Cutbanks cave	0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FsA: Forman-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	30	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
FsB: Forman-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	30	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
FtA: Forman-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	25	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Tonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Ga: Gardena-----	90	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Gd: Gardena-----	55	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Glyndon-----	35	Somewhat limited Depth to saturated zone	0.24	Somewhat limited Deep to water Cutbanks cave	0.38 0.10
Ge: Gardena-----	50	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Turton-----	35	Very limited Sodium content Droughty Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Slow refill Salty water Cutbanks cave	0.90 0.57 0.50 0.10
GgA: Great Bend-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GnA: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beotia-----	40	Not limited		Very limited Deep to water	1.00
GnB: Great Bend-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beotia-----	30	Not limited		Very limited Deep to water	1.00
GoA: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beotia-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
GpA: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Putney-----	35	Somewhat limited Salinity Sodium content	0.78 0.02	Very limited Deep to water	1.00
GpB: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Putney-----	35	Somewhat limited Salinity Sodium content	0.78 0.02	Very limited Deep to water	1.00
GtB: Great Bend-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	30	Not limited		Very limited Deep to water	1.00
GtC: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	40	Not limited		Very limited Deep to water	1.00
GzC: Great Bend-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	25	Not limited		Very limited Deep to water	1.00
Huffton-----	20	Somewhat limited Salinity Sodium content	0.50 0.18	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HaA: Hamerly-----	85	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Hb: Hamerly-----	50	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Tonka-----	40	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
HcA: Hand-----	50	Not limited		Very limited Deep to water	1.00
Bonilla-----	40	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.43 0.10
HcB: Hand-----	60	Not limited		Very limited Deep to water	1.00
Bonilla-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.43 0.10
HdA: Hand-----	50	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Carthage-----	40	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.54 0.10
He: Hand-----	45	Not limited		Very limited Deep to water	1.00
Carthage-----	25	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.54 0.10
Overshue-----	20	Very limited Depth to saturated zone Ponding Leaching limitation Restricted permeability	1.00 1.00 0.70 0.30	Somewhat limited Cutbanks cave	0.10
HfC: Hand-----	55	Not limited		Very limited Deep to water	1.00
Ethan-----	35	Not limited		Very limited Deep to water	1.00
HgB: Hand-----	50	Not limited		Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Bonilla-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.43 0.10
HgC: Hand-----	45	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	30	Not limited		Very limited Deep to water	1.00
Bonilla-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.43 0.10
HhB: Hand-----	50	Not limited		Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Carthage-----	20	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.54 0.10
HjB: Hand-----	45	Not limited		Very limited Deep to water	1.00
Talmo-----	35	Very limited Droughty Shallow to Discontinuity Filtering capacity Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
HjC: Hand-----	45	Not limited		Very limited Deep to water	1.00
Talmo-----	35	Very limited Droughty Shallow to Discontinuity Filtering capacity Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Hk: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Cutbanks cave  Slow refill Deep to water	1.00  0.95 0.90
Aberdeen-----	35	Very limited Restricted permeability Sodium content	1.00  0.08	Very limited Cutbanks cave  Slow refill Deep to water Salty water	1.00  0.95 0.90 0.01
Hm: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Cutbanks cave  Deep to water Slow refill	1.00  0.90 0.57
Aberdeen-----	35	Very limited Restricted permeability Sodium content	1.00  0.08	Very limited Cutbanks cave  Deep to water Slow refill Salty water	1.00  0.90 0.57 0.01
Hn: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Cutbanks cave  Deep to water Slow refill	1.00  0.90 0.57
Beotia-----	35	Not limited		Very limited Deep to water	1.00
Ho: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Cutbanks cave  Slow refill Deep to water	1.00  0.95 0.90
Beotia-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Hp: Harriet-----	90	Very limited Depth to saturated zone Droughty Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
Hr: Heil-----	90	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
HsA: Henkin-----	55	Not limited		Very limited Deep to water	1.00
Blendon-----	35	Not limited		Very limited Deep to water	1.00
HsB: Henkin-----	60	Not limited		Very limited Deep to water	1.00
Blendon-----	30	Not limited		Very limited Deep to water	1.00
HtB: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Prosper-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.90 0.10
HtC: Houdek-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	30	Not limited		Very limited Deep to water	1.00
Prosper-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.90
				Cutbanks cave	0.10
HuA: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	40	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.90
				Cutbanks cave	0.10
HuB: Houdek-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	30	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.90
				Cutbanks cave	0.10
HwA: Houdek-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Stickney-----	35	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Sodium content	0.82	Deep to water	0.90
		Salinity	0.06	Salty water	0.50
				Cutbanks cave	0.10
HxA: Houdek-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Stickney-----	25	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill  Deep to water Salty water Cutbanks cave	0.99  0.90 0.50 0.10
Tetonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave  Salty water	0.30 0.10  0.01
Hy: Hoven-----	90	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	1.00  0.50 0.10
Ie: Ipage-----	45	Very limited Filtering capacity Leaching limitation Restricted permeability Too acid	1.00 0.45 0.30 0.02	Very limited Cutbanks cave  Deep to water	1.00 0.90
Els-----	25	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.95 0.45 0.30	Very limited Cutbanks cave  Deep to water	1.00 0.02

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Shue-----	20	Very limited Depth to saturated zone Ponding Filtering capacity Restricted permeability	1.00  1.00 1.00  0.30	Very limited Cutbanks cave	1.00
Jh: Jerauld-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84  0.50 0.40	Very limited Slow refill Salty water Cutbanks cave  Deep to water	1.00 0.50 0.10  0.07
Hoven-----	40	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	1.00  0.50 0.10
KaA: Kranzburg-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Brookings-----	40	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
KbB: Kranzburg-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Brookings-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
Buse-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
KcA: Kranzburg-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	30	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.95  0.90 0.10 0.01
KtA: Kranzburg-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	25	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.95  0.90 0.10 0.01
Tonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
KzB: Kranzburg-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	30	Not limited		Very limited Deep to water	1.00
Aastad-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.81 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
La: La Prairie-----	85	Not limited		Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.30
Lc: La Prairie-----	50	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.30
Holmquist-----	40	Very limited Depth to saturated zone Flooding Sodium content Runoff limitation Salinity	1.00 1.00 0.50 0.40 0.06	Very limited Cutbanks cave  Slow refill Salty water	1.00  0.30 0.06
Ld: Ladelle-----	90	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Le: Ladelle-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Lk: Lamo-----	90	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
Lm: Lamoure-----	85	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.43 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ln: Lawet-----	85	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave	1.00
Lo: Lawet-----	90	Very limited Depth to saturated zone Ponding Leaching limitation Flooding	1.00 1.00 0.70 0.60	Very limited Cutbanks cave	1.00
Lp: Lawet-----	60	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave	1.00
Davison-----	30	Somewhat limited Depth to saturated zone	0.68	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.30  0.14 0.10 0.01
LrA: Lehr-----	55	Very limited Shallow to Discontinuity Droughty	1.00 1.00	Very limited Deep to water	1.00
Bowdle-----	35	Very limited Filtering capacity Shallow to Discontinuity Droughty	1.00 0.42 0.04	Very limited Deep to water	1.00
LrB: Lehr-----	60	Very limited Shallow to Discontinuity Droughty	1.00 1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Bowdle-----	30	Very limited Filtering capacity Shallow to Discontinuity Droughty	1.00 0.42 0.04	Very limited Deep to water	1.00
Ls: Lowe-----	85	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave Slow refill	1.00 0.30
Lt: Ludden-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Lu: Ludden-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Lw: Ludden-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
M-W: Miscellaneous Water-	100	Not rated		Not rated	



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
MaC: Maddock-----	50	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
Egeland-----	35	Not limited		Very limited Deep to water	1.00
MdA: Max-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Arnegard-----	40	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
MdB: Max-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Arnegard-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
MgB: Max-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Arnegard-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Zahl-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
MnB: Max-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Niobell-----	30	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Noonan-----	20	Very limited Droughty Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
MxC: Max-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zahl-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Arnegard-----	20	Not limited		Very limited Deep to water	1.00
My: Miranda-----	50	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.07
Heil-----	40	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Mz: Moritz-----	55	Somewhat limited Depth to saturated zone	0.95	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.02

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lowe-----	35	Very limited Depth to saturated zone Leaching limitation Flooding	1.00  0.70  0.60	Very limited Cutbanks cave  Slow refill	1.00  0.30
Na: Nahon-----	45	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30  0.08	Very limited Cutbanks cave Slow refill Deep to water  Salty water	1.00 0.99 0.90  0.50
Aberdeen-----	30	Very limited Restricted permeability Sodium content	1.00  0.08	Very limited Cutbanks cave  Deep to water Slow refill Salty water	1.00  0.90 0.57 0.01
Exline-----	20	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84  0.50 0.40	Very limited Cutbanks cave Slow refill Salty water  Deep to water	1.00 1.00 0.50  0.07
Nb: Nahon-----	45	Very limited Droughty Runoff limitation Restricted permeability Sodium content	1.00 0.40 0.30  0.08	Very limited Cutbanks cave Slow refill Deep to water  Salty water	1.00 0.95 0.90  0.50
Aberdeen-----	30	Very limited Restricted permeability Sodium content	1.00  0.08	Very limited Cutbanks cave  Slow refill Deep to water Salty water	1.00  0.95 0.90 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Exline-----	20	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.84  0.50 0.40	Very limited Cutbanks cave Slow refill Salty water  Deep to water	 1.00 0.95 0.50  0.07
Nc: Niobell-----	60	Very limited Restricted permeability Sodium content	 1.00  0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	 0.95  0.90 0.10 0.01
Noonan-----	30	Very limited Droughty Sodium content Runoff limitation Salinity	 1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	 1.00 0.90 0.10 0.01
Nd: Niobell-----	40	Very limited Restricted permeability Sodium content	 1.00  0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	 0.95  0.90 0.10 0.01
Noonan-----	30	Very limited Droughty Sodium content Runoff limitation Salinity	 1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	 1.00 0.90 0.10 0.01
Heil-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
NeA: Niobell-----	40	Very limited Restricted permeability Sodium content	 1.00  0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	 0.95  0.90 0.10 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Noonan-----	30	Very limited Droughty Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Max-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Nm: Noonan-----	55	Very limited Droughty Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Miranda-----	35	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
Nr: Northville-----	60	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Deep to water  Slow refill Salty water Cutbanks cave	0.81  0.57 0.50 0.10
Farmsworth-----	30	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95  0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave  Deep to water	0.99 0.50 0.10  0.02
Nv: Northville-----	40	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Deep to water  Slow refill Salty water Cutbanks cave	0.81  0.57 0.50 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Farmsworth-----	30	Very limited Droughty Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.95  0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave  Deep to water	 0.99 0.50 0.10  0.02
Hoven-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	 1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water Cutbanks cave	 1.00  0.50 0.10
Ov: Overshue-----	90	Very limited Depth to saturated zone Ponding Leaching limitation Restricted permeability	 1.00  1.00 0.70  0.30	Somewhat limited Cutbanks cave	 0.10
Pa: Parnell-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	 1.00  1.00 1.00 0.40	Somewhat limited Slow refill  Cutbanks cave	 0.95  0.10
Pc: Parshall-----	85	Not limited		Very limited Deep to water	 1.00
PeA: Peever-----	85	Somewhat limited Restricted permeability Sodium content	 0.89 0.08	Very limited Deep to water	 1.00
PgB: Peever-----	60	Somewhat limited Restricted permeability Sodium content	 0.89 0.08	Very limited Deep to water	 1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
PoA: Peever-----	60	Somewhat limited Restricted permeability Sodium content	0.89 0.08	Very limited Deep to water	1.00
Cavour-----	30	Very limited Droughty Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Pp: Pits, Gravel And Sand-----	90	Not rated		Not rated	
Pr: Playmoor-----	85	Very limited Depth to saturated zone Flooding Salinity Leaching limitation Sodium content	1.00 1.00 0.50 0.50 0.08	Very limited Cutbanks cave Salty water Slow refill	1.00 0.50 0.43
Py: Playmoor-----	50	Very limited Depth to saturated zone Flooding Salinity Leaching limitation Sodium content	1.00 1.00 0.50 0.50 0.08	Very limited Cutbanks cave Salty water Slow refill	1.00 0.50 0.43
Lamoure-----	40	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.43 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ra: Ranslo-----	85	Very limited Restricted permeability Droughty Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Re: Ranslo-----	50	Very limited Droughty Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Harriet-----	40	Very limited Depth to saturated zone Droughty Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
RfA: Renshaw-----	55	Very limited Shallow to Discontinuity Droughty Filtering capacity	1.00 1.00 1.00	Very limited Deep to water	1.00
Fordville-----	35	Somewhat limited Shallow to Discontinuity Droughty	0.42 0.04	Very limited Deep to water	1.00
RfB: Renshaw-----	60	Very limited Shallow to Discontinuity Droughty Filtering capacity	1.00 1.00 1.00	Very limited Deep to water	1.00
Fordville-----	30	Somewhat limited Shallow to Discontinuity Droughty	0.42 0.04	Very limited Deep to water	1.00



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
So: Southam-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation Salinity	1.00 1.00 1.00 0.40 0.01	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01
St: Stickney-----	60	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Dudley-----	30	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Su: Stickney-----	40	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Dudley-----	30	Very limited Droughty Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Hoven-----	20	Very limited Depth to saturated zone Droughty Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Sw: Straw-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Cutbanks cave	0.90 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sx: Straw-----	90	Not limited		Somewhat limited Deep to water Cutbanks cave	0.90 0.10
TbE: Talmo-----	45	Very limited Droughty Shallow to Discontinuity Slope Filtering capacity Leaching limitation	1.00 1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope	1.00	Very limited Deep to water	1.00
Te: Tetonka-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Tk: Toko-----	90	Very limited Depth to saturated zone Ponding Restricted permeability	1.00 1.00 0.30	Somewhat limited Cutbanks cave	0.10
Tm: Toko-----	90	Very limited Ponding Depth to saturated zone Restricted permeability	1.00 1.00 0.30	Somewhat limited Cutbanks cave	0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tn: Tonka-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
To: Tonka-----	60	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
Rimlap-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.95  0.10
Us: Udorthents, Silty---	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Va: Vallars-----	60	Very limited Depth to saturated zone Restricted permeability	1.00  0.30	Somewhat limited Slow refill  Cutbanks cave	0.95  0.10
Hamerly-----	30	Somewhat limited Depth to saturated zone Restricted permeability	0.84  0.30	Somewhat limited Slow refill  Cutbanks cave  Deep to water	0.95  0.10  0.07

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
VgA: Vang-----	85	Very limited Filtering capacity Shallow to Discontinuity Droughty	1.00 0.42 0.12	Very limited Deep to water	1.00
W: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
WaA: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	40	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.90 0.10
WaB: Williams-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	30	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.90 0.10
WbA: Williams-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.90 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
WbB: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.90 0.10
Tonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
WcA: Williams-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Niobell-----	30	Very limited Restricted permeability Sodium content	1.00  0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.95  0.90 0.10 0.01
WcB: Williams-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Niobell-----	30	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.95  0.90 0.10 0.01
WdA: Williams-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Niobell-----	25	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill  Deep to water Cutbanks cave Salty water	0.95  0.90 0.10 0.01
Tonka-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
WhD: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Vida-----	40	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
WmB: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zahl-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Somewhat limited Slow refill	0.95
				Deep to water	0.90
				Cutbanks cave	0.10
WmC: Williams-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zahl-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Wn: Winship-----	60	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Depth to saturated zone	0.84	Cutbanks cave	0.10
				Deep to water	0.07
Tonka-----	30	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
Wo: Winship-----	60	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Depth to saturated zone	0.84	Cutbanks cave	0.10
				Deep to water	0.07

Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00  1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
Ws: Woonsocket-----	50	Somewhat limited Sodium content	0.82	Somewhat limited Deep to water Cutbanks cave Salty water	0.81 0.10 0.06
Whitelake-----	35	Very limited Droughty Sodium content Salinity	1.00 0.82 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
Wt: Worthing-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill  Cutbanks cave Salty water	0.95  0.10 0.01
Ww: Worthing-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill  Cutbanks cave Salty water	0.95  0.10 0.01
ZaE: Zahill-----	85	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
ZbC: Zahl-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00



Ag. Waste Application and Excavated Ponds -- continued  
Spink County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Max-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
ZbD: Zahl-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Max-----	35	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
ZgD: Zell-----	55	Very limited Slope	1.00	Very limited Deep to water	1.00
Great Bend-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

